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| Notice of Allowability | Application No. | Applicant(s) |
| | 10/038,873 | CLEVELAND ET AL. |
| | Examiner YOUNG T. TSE | Art Unit 2637 |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to the amendment filed on 03 October 2005.
2. The allowed claim(s) is/are 1-22.
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All
 - b) Some*
 - c) None
 of the:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____.
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of
 Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. Notice of References Cited (PTO-892)
2. Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. Notice of Informal Patent Application (PTO-152)
6. Interview Summary (PTO-413),
Paper No./Mail Date _____
7. Examiner's Amendment/Comment
8. Examiner's Statement of Reasons for Allowance
9. Other _____.

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with John T. Mockler on October 14, 2005.

The application has been amended as follows:

In claim 1, line 5, "sequential, non-overlapping pairs" has been changed to "sequential non-overlapping pairs"; line 14, "said sequential pairs" has been changed to "said sequential non-overlapping pairs"; and line 19, "a sequential pair" has been changed to "a sequential non-overlapping pair".

In claim 2, line 2, "sequential, non-overlapping pairs" has been changed to "sequential non-overlapping pairs" and line 11 "a sequential pair" has been changed to "a sequential non-overlapping pair".

In claim 3, line 2, "sequential, non-overlapping pairs" has been changed to "sequential non-overlapping pairs" and line 11 "sequential pair" has been changed to "sequential non-overlapping pair".

In claim 4, line 2, "sequential, non-overlapping pairs" has been changed to "sequential non-overlapping pairs" and line 11 "a sequential pair" has been changed to "a sequential non-overlapping pair".

In claim 6, line 3, "value" has been changed to "sum value".

In claim 10, line 8, "sequential, non-overlapping pairs" has been changed to "sequential non-overlapping pairs"; lines 18-19, "said sequential pairs" has been changed to "said sequential non-overlapping pairs"; and line 24, "a sequential pair" has been changed to "a sequential non-overlapping pair".

In claim 11, line 3, "sequential, non-overlapping pairs" has been changed to "sequential non-overlapping pairs" and line 12 "a sequential pair" has been changed to "a sequential non-overlapping pair".

In claim 12, line 3, "sequential, non-overlapping pairs" has been changed to "sequential non-overlapping pairs" and line 12 "sequential pair" has been changed to "sequential non-overlapping pair".

In claim 13, line 3, "sequential, non-overlapping pairs" has been changed to "sequential non-overlapping pairs" and line 12 "a sequential pair" has been changed to "a sequential non-overlapping pair".

In claim 15, line 3, "value" has been changed to "sum value".

In claim 19, line 6, "sequential, non-overlapping pairs" has been changed to "sequential non-overlapping pairs"; line 9, "the Kth" has been changed to "a Kth"; line 11, "the sequential pairs" has been changed to "the sequential non-overlapping pairs"; line 14, "the Kth" (first occurrence) has been changed to "a Kth"; and line 18, "a sequential pair" has been changed to "a sequential non-overlapping pair".

In claim 20, line 3, "sequential, non-overlapping pairs" has been changed to "sequential non-overlapping pairs" and line 11 "sequential pair" has been changed to "sequential non-overlapping pair".

In claim 21, line 1, "Claim20" has been changed to "Claim 20"; line 3, "sequential, non-overlapping pairs" has been changed to "sequential non-overlapping pairs" and line 11 "sequential pair" has been changed to "sequential non-overlapping pair".

In claim 22, line 1, "Claim21" has been changed to "Claim 21"; line 3, "sequential, non-overlapping pairs" has been changed to "sequential non-overlapping pairs" and line 11 "sequential pair" has been changed to "sequential non-overlapping pair".

Any inquiry concerning this communication or earlier communications from the examiner should be directed to YOUNG T. TSE whose telephone number is (571) 272-3051. The examiner can normally be reached on Monday-Thursday and alternative Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on (571) 272-2988. The Central FAX Number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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